

Figure 1 (SEQ ID NO:1)

1 ATGAAGAAAC ATCTTAAAAC AGTTGCCTTG ACCCTCACTA CAGTATCGGT AGTCACCCAC  
61 AATCAGGAAG TTTTTAGTTT AGTCAAAGAG CCAATTCTTA AACAAACTCA AGCTTCTTCA  
121 TCGATTTCTG GCGCTGACTA CGCAGAAAGT AGCGGTAAAA GCAAGTAAA GATTAATGAA  
181 ACTTCTGGCC CTGTTGATGA TACAGTCACT GACTTATTTT CGGATAAACG TACTACTCCT  
241 GAAAAAAATAA AAGATACT TGCTAAAGGT CCGAGAGAAC AAGAGTAAA GGCAGTAACA  
301 GAGAATACAG AATCAGAAAA GCAGATCACT TCTGGATCTC AACTAGAAC AATCAAAAGAG  
361 TCTCTTTCTT TAAATAAAAC AGTGCATCA ACGTCTAATT GGGAGATTTG TGATTTTATT  
421 ACTAAGGGGA ATACCCCTGT TGTTCTTCA AAAATCAGGTG TTGAAAAGTT ATCTCAAAC  
481 GATCATCTG TATTGCTTAG TCAAGCAGCA GATGGAACCT AATTGATACA AGTAGCTAGT  
541 TTTGCTTTTA CTCCAGATAA AAAGACGGCA ATTGAGAACAT ATACCGTAG GGCTGGAGAA  
601 AATGGGGAAA TAAGCCAATC AGATGTGGAT GGAAAAGAAA TTATAAACGA AGGTGAGGTT  
661 TTTAATTCTT ATCTACTAAA GAAGGTAAACA ATCCCAACTG GTTATAAAC AATGGTCAA  
721 GATGCTTTG TGGACAAATAA GAATATTGCT GAGGTAAATC TTCCGAAAG CCTCGAGACT  
781 ATTTCTGACT ATGCTTTGC TCACCTAGCT TTGAAACAGA TCGATTGCCC AGATAATTAA  
841 AAAGCGATTG GAGAATTAGC TTTTTTGAT AATCAAATTAA CAGGTAAACT TTCTTGCCCA  
901 CGTCAGTTAA TGCGATTAGC AGAACGTGCT TTTAAATCAA ACCATATCAA AACAAATTGAG  
961 TTTAGAGGAA ATAGTCTAAA AGTGTAGGG GAAAGCTAGTT TTCAAGATAA TGATCTGAGT  
1021 CAACTAATGC TACCTGACGG TCTTGAACAA ATAGAATCAG AAGCTTTAC AGGAAATCCA  
1081 GGAGATGATC ACTACAATAA CCGTGTGTT TTGTTGACAA AATCTGGAA AATCCTTCT  
1141 GGTCTTGCTA CTGAAAATAC CTATGTTAAT CCGTATAAGT CACTATGGCA GGAAAGTCCT  
1201 GAGATTGATT ATACTAAATG GTTAGAGGAA GATTTTACCT ATCAAAAAAA TAGTGTACAA  
1261 GGTTTTCAAA ATAAAGGCTT ACAAAGTA AACAGTAATA AAAACTAGA AATTCCAAA  
1321 CAGCACAATG GTGTTACTAT TACTGAAATT GGTGATAATG CTTTCGCAA TGTTGATTTT  
1381 CAAAATAAAA CTTTACGTAA ATATGATTG GAAGAAGTAA AGCTTCCCTC AACTATTCCG  
1441 AAAATAGGTG CTTTTGCTTT TCAATCTAAT AACCTGAAAT CTTTGAAAG AAGTGACGAT  
1501 TTAGAAGAGA TTAAAGAGGG AGCCTTTATG AATAATCGTA TTGAAACCTT GGAATTAAA  
1561 GATAAATTAG TTACTATTGG TGATGCGGCT TTCCATATTA ATCATATTAA TGCCATTGTT  
1621 CTTCAGAAAT CTGTACAAGA AATAGGGCGT TCAGCATTTC GGCAAAATGG TGCAAAATAAT  
1681 CTTATTTTA TGGGAAGTAA GTTAAAGACC TTAGGTGAGA TGGCATTTT ATCAAATAGA  
1741 CTGAAACATC TGGATCTTTC TGAGCAAAAA CAGTTAACAG AGATTCTGT TCAAGCCTT  
1801 TCAGACAATG CCTTGAAAGA AGTATTATTA CCAGCATCAC TGAAAACGAT TGAGAAGAA  
1861 GCCTCAAAA AGAACATTT AAAACAAC TG GAAGTGGCAT CTGCCTGTC CCATATTGCT  
1921 TTTAATGCTT TAGATGATAA TGATGGTGAT GAACAATTG ATAATAAAAGT GGTGTTAAA  
1981 ACCGATCATA ATTCCCTACGC ACTAGCAGAT GGTGAGCATT TTATCGTGA TCCAGATAAG  
2041 TTATCTCTA CAATAGTGA CCTTGAAAG ATTAAAC TAATCGAAGG TTAGATTAT  
2101 TCTACATTAC GTCAAGACTAC TCAAACTCAG TTTAGAGACA TGACTACTGC AGTAAAGCG  
2161 TTGTTGTCAA ATCTAACCT CGCAGAAAGG GAAAACAAA AATTCCTCA AGAACACAA  
2221 TTTTCCTTG GCCGCGTTGA TTGGATAAA CCATAGCTA AAGCTGAGAA GGCTTTAGTG  
2281 ACCAAGAAGG CAACAAAGAA TGGTCAGTTG CTTGAAAGAA GTATTAAAC AGCGGTATTA  
2341 GCTTATAATA ATAGCGCTAT TAAAAAGCT AATGTTAACG GCTTGGAAA AGAGTTAGAC  
2401 TTGCTAACAG GATTAGTTGA GGGAAAAGGA CCATTAGCGC AAGCTACAAT GGTACAAGGA  
2461 GTTTATTTAT TAAAGACGCC TTTGCCATTG CCAGAATATT ATATCGGATT GAACGTTTAT  
2521 TTGACAAGT CTGGAAAATT GATTTATGCA CTTGATATGA GTGATACTAT TGGCGAGGG  
2581 CAAAAGACG CTTATGGTAA TCCTATATTA AATGTTGACG AGGATAATGA AGTTATCAT  
2641 GCCTTGGCAG TTGCCACTT AGCTGATTAT GAGGGGCTCG ACATCAAAAC AATTAAAT  
2701 AGTAAGCTTA GTCAATTAAAC ATCTATTCTGT CAGGTACCGA CTGCAGCCTA TCATAGAGCC  
2761 GGTATTTCC AAGCTATCCA AAATGCAGCG GCAGAACAG AGCAGTTATT GCCTAAACCA  
2821 GGTACGCACT CTGAGAAGTC AAGCTCAAGT GAATCTGCTA ACTCTAAAGA TAGAGGATTG  
2881 CAATCAAACC CAAAACGAA TAGAGGACGA CACTCTGCAA TATTGCTTAG GACAGGGTCA  
2941 AAAGGCAGCT TTGTCTATGG AATCTTAGGT TACACTAGCG TTGCTTTACT GTCACTAATA  
3001 ACTGCTATAA AAAAGAAAAA ATATTAA

Figure 2 (SEQ ID NO:2)

1 MKKHLKTVL TLTTVSVVTH NQEVFSLVKE PILKQQTQASS SISGADYAES SGKSKLKINE  
61 TSGPVDDTVT DLFSDKRTTP EKIKDNLAKG PREQELKAVT ENTESEKQIT SGSQLEQSKE  
121 SLSLNKTVPS TSNWEICDFI TKGNTLVGLS KSGVEKLSQT DHLVLPQAA DGTQLIQVAS  
181 FAFTPDKKTA IAEYTSRAGE NGEISQLDVD GKEIINEGEV FNSYLLKKVT IPTGYKHIGQ  
241 DAFVDNKNIA EVNLPESET ISDYAFAHLA LKQIDLPDNL KAIGELAFFD NQITGKLSLP  
301 RQLMRLAERA FKSNNHIKTIE FRGNNSLKVIG EASFQDNDLS QLMLPDGLEK IESEAFTGNP  
361 GDDHYNNRNVV LWTKSGKNPS GLATENTYVN PDKSLWQESP EIDYTKWLEE DFTYQKNSVT  
421 GFSNKGLQKV KRKNKNLEIPK QHNGVTITEI GDNAFRNVDF QNKTLRKYDL EEVKLPSLIR  
481 KIGAFAFQSN NLKSFEASDD LEEIKEGAFM NNRIETLELK DKLVTIGDAA FHINHIYAI  
541 LPESVQEIGR SAFRQNGANN LIFMGSKVKT LGEMAFLSNR LEHLDLSEQK QLTERIPVQAF  
601 SDNALKEVLL PASLKTIREE AFKKNHLKQL EVASALSHIA FNALDDNDGD EQFDNKVVVK  
661 THHNSYALAD GEHFIVDPDK LSSTIVDLEK ILKLIIEGLDY STLRQTTQTTQ FRDMTTAGKA  
721 LLSKSNLRLQG EKOKFLOEAQ FFLGRVLDLK AIAKAEKALV TKKATKNGQL LERSINKAVL  
781 AYNNSAIKKA NVKRLEKELD LLTGLVEGKG PLAQATMVQG VYLLKTPPLPEYYIGLNVY  
841 FDKSGKLIYA LDMSDTIGEG QKDAYGNPIL NVDEDNEGYH ALAVATLADY EGLDIKTILN  
901 SKLSQLTSIR QVPTAAYHRA GIFQAIQNAA AEAEQLLPKP GTHSEKSSSS ESANSKDRGL  
961 QSNPKTNRGR HSAILPRTGS KGSFVYGLG YTSVALLSLI TAIKKKKY\*

Figure 3

Clustal W(1.4) multiple sequence alignment

7 Sequences Aligned. Alignment Score = 118839  
 Gaps Inserted = 0 Conserved Identities = 936

Pairwise Alignment Mode: Fast

Pairwise Alignment Parameters:

ktup = 1 Gap Penalty = 3 Top Diagonals = 5 Window Size = 5

Multiple Alignment Parameters:

Open Gap Penalty = 10.0 Extend Gap Penalty = 0.1

Delay Divergent = 40% Gap Distance = 8

Similarity Matrix: blosum

Processing time: 12.9 seconds

Spy74_M3	1	DYAES	5
Spy70_M5	1	LVKEPILKQTOASSSISGADYAES	24
Spy69_M6	1	KOTOASSSISGADYAES	17
Spy68_M2	1	LVKEPILKQTOASSSISGADYAES	24
Spy60_M1	1	LVKEPILKQTOASSSISGADYAES	24
12357_M18	1	VKEPILKQTOASSSISGADYAES	23
700294_M1	1	MKKHLKTVALTLLTVSVVTHNQEVFSLVKEPILKQTOASSSISGADYAES	50
*****			
Spy74_M3	6	SGKSKLKINETSGPVDDTVTDLFSDKRTTPEKIKDNLAKGPREQELKAVT	55
Spy70_M5	25	SGKSKLKINETSGPVDDTVTDLFSDKRTTPEKIKDNLAKGPREQELKAVT	74
Spy69_M6	18	SGKSKLKINETSGPVDDTVTDLFSDKRTTPEKIKDNLAKGPREQELKAVT	67
Spy68_M2	25	SGKSKLKINETSGPVDDTVTDLFSDKRTTPEKIKDNLAKGPREQELKAVT	74
Spy60_M1	25	SGKSKLKINETSGPVDDTVTDLFSDKRTTPEKIKDNLAKGPREQELKAVT	74
12357_M18	24	SGKSKLKINETSGPVDDTVTDLFSDKRTTPEKIKDNLAKGPREQELKAVT	73
700294_M1	51	SGKSKLKINETSGPVDDTVTDLFSDKRTTPEKIKDNLAKGPREQELKAVT	100
*****			
Spy74_M3	56	ENTESEKQITSGSQLEQSKESSLNLKRVPSLNSWEICDFITKGNTLVGLS	105
Spy70_M5	75	ENTESEKQINSGSQLEQSKESSLNLKRVPSLNSWEICDFITKGNTLVGLS	124
Spy69_M6	68	ENTESEKQINSGSQLEQSKESSLNLKRVPSLNSWEICDFITKGNTLVGLS	117
Spy68_M2	75	ENTESEKQITSGSQLEQSKESSLNLKRVPSLNSWEICDFITKGNTLVGLS	124
Spy60_M1	75	ENTESEKQITSGSQL2QSKESSLNLKRVPSLNSWEICDFITKGNTLVGLS	124
12357_M18	74	ENTESEKQINSGSQLEQSKESSLNLKRVPSLNSWEICDFITKGNTLVGLS	123
700294_M1	101	ENTESEKQITSGSQLEQSKESSLNLKRVPSLNSWEICDFITKGNTLVGLS	150
*****			
Spy74_M3	106	KSGVEKLSQTDHLVLPSQAADGTQLIQVASFAFTPDKKTAIAEYTSRAGE	155
Spy70_M5	125	KSGVEKLSQTDHLVLPSQAADGTQLIQVASFAFTPDKKTAIAEYTSRAGE	174
Spy69_M6	118	KSGVEKLSQTDHLVLPSQAADGTQLIQVASFAFTPDKKTAIAEYTSRAGE	167
Spy68_M2	125	KSGVEKLSQTDHLVLPSQAADGTQLIQVASFAFTPDKKTAIAEYTSRAGE	174
Spy60_M1	125	KSGVEKLSQTDHLVLPSQAADGTQLIQVASFAFTPDKKTAIAEYTSRAGE	174
12357_M18	124	KSGVEKLSQTDHLVLPSQAADGTQLIQVASFAFTPDKKTAIAEYTSRAGE	173
700294_M1	151	KSGVEKLSQTDHLVLPSQAADGTQLIQVASFAFTPDKKTAIAEYTSRAGE	200
*****			

Spy74_M3	156	NGEISQLDVDGKEIINEGEVFNSYLLKKVTIPTGYKHIGQDAFVDNKNIA	205
Spy70_M5	175	NGEISQLDVDGKEIINEGEVFNSYLLKKVTIPTGYKHIGQDAFVDNKNIA	224
Spy69_M6	168	NGEISQLDVDGKEIINEGEVFNSYLLKKVTIPTGYKHIGQDAFVDNKNIA	217
Spy68_M2	175	NGEISQLDVDGKEIINEGEVFNSYLLKKVTIPTGYKHIGQDAFVDNKNIA	224
Spy60_M1	175	NGEISQLDVDGKEIINEGEVFNSYLLKKVTIPTGYKHIGQDAFVDNKNIA	224
12357_M18	174	NGEISQLDVDGKEIINEGEVFNSYLLKKVTIPTGYKHIGQDAFVDNKNIA	223
700294_M1	201	NGEISQLDVDGKEIINEGEVFNSYLLKKVTIPTGYKHIGQDAFVDNKNIA	250
*****			
Spy74_M3	206	EVNLPELETISDYAPAHLLALKQIDL PDNLKAIGELAFFDNQITGKLSLP	255
Spy70_M5	225	EVNLPELETISDYAPAHLLALKQIDL PDNLKAIGELAFFDNQITGKLSLP	274
Spy69_M6	218	EVNLPELETISDYAPAHLLALKQIDL PDNLKAIGELAFFDNQITGKLSLP	267
Spy68_M2	225	EVNLPELETISDYAPAHLLALKQIDL PDNLKAIGELAFFDNQITGKLSLP	274
Spy60_M1	225	EVNLPELETISDYAPAHLLALKQIDL PDNLKAIGELAFFDNQITGKLSLP	274
12357_M18	224	EVNLPELETISDYAPAHLLALKQIDL PDNLKAIGELAFFDNQITGKLSLP	273
700294_M1	251	EVNLPELETISDYAPAHLLALKQIDL PDNLKAIGELAFFDNQITGKLSLP	300
*****			
Spy74_M3	256	RQLMRLAERAFKSNHIKTIEFRGNSLKVGAEASFQDNDSLSQLMLPDGLEK	305
Spy70_M5	275	RQLMRLAERAFKSNHIKTIEFRGNSLKVGAEASFQDNDSLSQLMLPDGLEK	324
Spy69_M6	268	RQLMRLAERAFKSNHIKTIEFRGNSLKVGAEASFQDNDSLSQLMLPDGLEK	317
Spy68_M2	275	RQLMRLAERAFKSNHIKTIEFRGNSLKVGAEASFQDNDSLSQLMLPDGLEK	324
Spy60_M1	275	RQLMRLAERAFKSNHIKTIEFRGNSLKVGAEASFQDNDSLSQLMLPDGLEK	324
12357_M18	274	RQLMRLAERAFKSNHIKTIEFRGNSLKVGAEASFQDNDSLSQLMLPDGLEK	323
700294_M1	301	RQLMRLAERAFKSNHIKTIEFRGNSLKVGAEASFQDNDSLSQLMLPDGLEK	350
*****			
Spy74_M3	306	IESEAPTGNPGDDHYNNRVLWTKSGKNPYGLATENTYVNPDKSLWQESP	355
Spy70_M5	325	IESEAPTGNPGDDHYNNRVLWTKSGKNPYGLATENTYVNPDKSLWQESP	374
Spy69_M6	318	IESEAPTGNPGDDHYNNRVLWTKSGKNPYGLATENTYVNPDKSLWQESP	367
Spy68_M2	325	IESEAPTGNPGDDHYNNRVLWTKSGKNPYGLATENTYVNPDKSLWQESP	374
Spy60_M1	325	IESEAPTGNPGDDHYNNRVLWTKSGKNPYGLATENTYVNPDKSLWQESP	374
12357_M18	324	IESEAPTGNPGDDHYNNRVLWTKSGKNPYGLATENTYVNPDKSLWQESP	373
700294_M1	351	IESEAPTGNPGDDHYNNRVLWTKSGKNPYGLATENTYVNPDKSLWQESP	400
*****			
Spy74_M3	356	EIDYTKWLEEDFTYQNSVTGFSSKGLQKVKRKNLLEIPKQHNGVTITEI	405
Spy70_M5	375	EIDYTKWLEEDFTYQNSVTGFSSKGLQKVKRKNLLEIPKQHNGVTITEI	424
Spy69_M6	368	EIDYTKWLEEDFTYQNSVTGFSSKGLQKVKRKNLLEIPKQHNGVTITEI	417
Spy68_M2	375	EIDYTKWLEEDFTYQNSVTGFSSKGLQKVKRKNLLEIPKQHNGVTITEI	424
Spy60_M1	375	EIDYTKWLEEDFTYQNSVTGFSSKGLQKVKRKNLLEIPKQHNGVTITEI	424
12357_M18	374	EIDYTKWLEEDFTYQNSVTGFSSKGLQKVKRKNLLEIPKQHNGVTITEI	423
700294_M1	401	EIDYTKWLEEDFTYQNSVTGFSSKGLQKVKRKNLLEIPKQHNGVTITEI	450
*****			
Spy74_M3	406	GDNAFRNVDQNKTLRKYDLEEVKLPSTIRKIGAPAFQSNNLKSFEASDD	455
Spy70_M5	425	GDNAFRNVDQNKTLRKYDLEEVKLPSTIRKIGAPAFQSNNLKSFEASDD	474
Spy69_M6	418	GDNAFRNVDQNKTLRKYDLEEVKLPSTIRKIGAPAFQSNNLKSFEASDD	467
Spy68_M2	425	GDNAFRNVDQNKTLRKYDLEEVKLPSTIRKIGAPAFQSNNLKSFEASDD	474
Spy60_M1	425	GDNAFRNVDQNKTLRKYDLEEVKLPSTIRKIGAPAFQSNNLKSFEASDD	474
12357_M18	424	GDNAFRNVDQNKTLRKYDLEEVKLPSTIRKIGAPAFQSNNLKSFEASDD	473
700294_M1	451	GDNAFRNVDQNKTLRKYDLEEVKLPSTIRKIGAPAFQSNNLKSFEASDD	500
*****			

Spy74_M3	456	LEEIKEGAFMNNRIETLELKDKLVTIGDAAFHINHIYAIVLPESVQEIGR	505
Spy70_MS	475	LEEIKEGAFMNNRIETLELKDKLVTIGDAAFHINHIYAIVLPESVQEIGR	524
Spy69_M6	468	LEEIKEGAFMNNRIETLELKDKLVTIGDAAFHINHIYAIVLPESVQEIGR	517
Spy68_M2	475	LEEIKEGAFMNNRIETLELKDKLVTIGDAAFHINHIYAIVLPESVQEIGR	524
Spy60_M1	475	LEEIKEGAFMNNRIETLELKDKLVTIGDAAFHINHIYAIVLPESVQEIGR	524
12357_M18	474	LEEIKEGAFMNNRIETLELKDKLVTIGDAAFHINHIYAIVLPESVQEIGR	523
700294_M1	501	LEEIKEGAFMNNRIETLELKDKLVTIGDAAFHINHIYAIVLPESVQEIGR	550
*****			
Spy74_M3	506	SAFRQNGANNLIFMGSKVKTIGEMAFLSNRLEHLDLSEQKQLTEIPVQAF	555
Spy70_MS	525	SAFRQNGANNLIFMGSKVKTIGEMAFLSNRLEHLDLSEQKQLTEIPVQAF	574
Spy69_M6	518	SAFRQNGANNLIFMGSKVKTIGEMAFLSNRLEHLDLSEQKQLTEIPVQAF	567
Spy68_M2	525	SAFRQNGANNLIFMGSKVKTIGEMAFLSNRLEHLDLSEQKQLTEIPVQAF	574
Spy60_M1	525	SAFRQNGANNLIPMGSKVKTIGEMAFLSNRLEHLDLSEQKQLTEIPVQAF	574
12357_M18	524	SAFRQNGANNLIFMGSKVKTIGEMAFLSNRLEHLDLSEQKQLTEIPVQAF	574
700294_M1	551	SAFRQNGANNLIFMGSKVKTIGEMAFLSNRLEHLDLSEQKQLTEIPVQAF	600
*****			
Spy74_M3	556	SDNALKEVLLPASLKTIREEAFKKNHLKOLEVASALSHIAFNALDDNDGD	605
Spy70_MS	575	SDNALKEVLLPASLKTIREEAFKKNHLKOLEVASALSHIAFNALDDNDGD	624
Spy69_M6	568	SDNALKEVLLPASLKTIREEAFKKNHLKOLEVASALSHIAFNALDDNDGD	617
Spy68_M2	575	SDNALKEVLLPASLKTIREEAFKKNHLKOLEVASALSHIAFNALDDNDGD	624
Spy60_M1	575	SDNALKEVLLPASLKTIREEAFKKNHLKOLEVASALSHIAFNALDDNDGD	624
12357_M18	574	SDNALKEVLLPASLKTIREEAFKKNHLKOLEVASALSHIAFNALDDNDGD	623
700294_M1	601	SDNALKEVLLPASLKTIREEAFKKNHLKOLEVASALSHIAFNALDDNDGD	650
*****			
Spy74_M3	606	EQFDNKVVVKTHNSYALADGEHFIGDPDKLSSTMVDLEKILKLIEGLDY	655
Spy70_MS	625	EQFDNKVVVKTHNSYALADGEHFIGDPDKLSSTIVDLEKILKLIEGLDY	674
Spy69_M6	618	EQFDNKVVVKTHNSYALADGEHFIGDPDKLSSTMVDLEKILKLIEGLDY	667
Spy68_M2	625	EQFDNKVVVKTHNSYALADGEHFIGDPDKLSSTMVDLEKILKLIEGLDY	674
Spy60_M1	625	EQFDNKVVVKTHNSYALADGEHFIGDPDKLSSTMVDLEKILKLIEGLDY	674
12357_M18	624	EQFDNKVVVKTHNSYALADGEHFIGDPDKLSSTMVDLEKILKLIEGLDY	673
700294_M1	651	EQFDNKVVVKTHNSYALADGEHFIGDPDKLSSTMVDLEKILKLIEGLDY	700
*****			
Spy74_M3	656	STLRQTTQTQFRDMTTAGKALLSKSKLQRGEKQKFLQEAQFFLGRVLDLK	705
Spy70_MS	675	STLRQTTQTQFRDMTTAGKALLSKSNLQRGEKQKFLQEAQFFLGRVLDLK	724
Spy69_M6	668	STLRQTTQTQFRDMTTAGKALLSKSNLQRGEKQKFLQEAQFFLGRVLDLK	717
Spy68_M2	675	STLRQTTQTQFRDMTTAGKALLSKSNLQRGEKQKFLQEAQFFLGRVLDLK	724
Spy60_M1	675	STLRQTTQTQFRDMTTAGKALLSKSNLQRGEKQKFLQEAQFFLGRVLDLK	724
12357_M18	674	STLRQTTQTQFRDMTTAGKALLSKSNLQRGEKQKFLQEAQFFLGRVLDLK	723
700294_M1	701	STLRQTTQTQFRDMTTAGKALLSKSNLQRGEKQKFLQEAQFFLGRVLDLK	750
*****			
Spy74_M3	706	AIAKAEKALVTKKATKNGQLLGRSINKAVLAYNNSAIKKANVKRLEKELD	755
Spy70_MS	725	AIAKAEKALVTKKATKNGQLLERSINKAVLAYNNSAIKKANVKRLEKELD	774
Spy69_M6	718	AIAKAEKALVTKKATKNGQLLERSINKAVSAYNNSAIKKANVKRLEKELD	767
Spy68_M2	725	AIAKAEKALVTKKATKNGQLLERSINKAVLAYNNSAIKKANVKRLEKELD	774
Spy60_M1	725	AIAKAEKALVTKKATKNGQLLERSINKAVLAYNNSAIKKANVKRLEKELD	774
12357_M18	724	AIAKAEKALVTKKATKNGQLLERSINKAVLAYNNSAIKKANVKRLEKELD	773
700294_M1	751	AIAKAEKALVTKKATKNGQLLERSINKAVLAYNNSAIKKANVKRLEKELD	800
*****			

Spy74_M3	755	LLTGLVEGKGPLAQATMVQGVYLLKTPPLPEYYIGLNVYFDKSGKLIYA	805
Spy70_M5	775	LLTGLVEGKGPLAQATMVQGVYLLKTPPLPEYYIGLNVYFDKSGKLIYA	824
Spy69_M6	768	LLTGLVEGKGPLAQATMVQGVYLLKTPPLPEYYIGLNVYFDKSGKLIYA	817
Spy68_M2	775	LLTGLVEGKGPLAQATMVQGVYLLKTPPLPEYYIGLNVYFDKSGKLIYA	824
Spy60_M1	775	LLTGLVEGKGPLAQATMVQGVYLLKTPPLPEYYIGLNVYFDKSGKLIYA	824
12357_M18	774	LLTGLVEGKGPLAQATMVQGVYLLKTPPLPEYYIGLNVYFDKSGKLIYA	823
700294_M1	801	LLTGLVEGKGPLAQATMVQGVYLLKTPPLPEYYIGLNVYFDKSGKLIYA	850

Spy74_M3	806	LDMSDTIGEGQKDAYGNPILNVDEDNEGYHALAVATLADYEGLDIKTILN	855
Spy70_M5	825	LDMSDTIGEGQKDAYGNPILNVDEDNEGYHALAVATLADYEGLDIKTILN	874
Spy69_M6	818	LDMSDTIGEGQKDAYGNPILNVDEDNEGYHALAVATLADYEGLDIKTILN	867
Spy68_M2	825	LDMSDTIGEGQKDAYGNPILNVDEDNEGYHALAVATLADYEGLDIKTILN	874
Spy60_M1	825	LDMSDTIGEGQKDAYGNPILNVDEDNEGYHALAVATLADYEGLDIKTILN	874
12357_M18	824	LDMSDTIGEGQKDAYGNPILNVDEDNEGYHALAVATLADYEGLDIKTILN	873
700294_M1	851	LDMSDTIGEGQKDAYGNPILNVDEDNEGYHALAVATLADYEGLDIKTILN	900

Spy74_M3	856	SKLSQLTSIRQVPTAAAYHRAGIFQAIQNAAAEQQLPKPGTHSEKSSSS	905
Spy70_M5	875	SKLSQLTSIRQVPTAAAYHRAGIFQAIQNAAAEQQLPKAGTHSEKSSSS	924
Spy69_M6	868	SKLSQLTSIRQVPTAAAYHRAGIFQAIQNAAAEQQLPKPGTHSEKSSSS	917
Spy68_M2	875	SKLSQLTSIRQVPTAAAYHRAGIFQAIQNAAAEQQLPKPGMSEKSSSS	924
Spy60_M1	875	SKLSQLTSIRQVPTAAAYHRAGIFQAIQNAAAEQQLPKPGTHSEKSSSS	924
12357_M18	874	SKLSQLTSIRQVPTAAAYHRAGIFQAIQNAAAEQQLPKPGTHSEKSSSS	923
700294_M1	901	SKLSQLTSIRQVPTAAAYHRAGIFQAIQNAAAEQQLPKPGTHSEKSSSS	950

Spy74_M3	906	ESANSKDRGLQSNPKTNRGRHSAILPRTGSKGSFVYGILGYTSVAL	951
Spy70_M5	925	ESANSKDRGLQSNPKTNRGRHSAILPRTGSKGSFVYGILGYTSVAL	970
Spy69_M6	918	ESANSKDRGLQSNPKTNRGRHSAILPRTGSKGSFVYGILGYTSVAL	963
Spy68_M2	925	ESANSKDRGLQSNPKTNRGRHSAILPRTGSKGSFVYGILGYTSVAL	971
Spy60_M1	925	ESANSKDRGLQSNPKTNRGRHSAILPRTGSKGSFVYGILGYTSVAL	971
12357_M18	924	ESANSKDRGLQSNPKTNRGRHSAILPRTGSKGSFVYGILGYTSVAL	969
700294_M1	951	ESANSKDRGLQSNPKTNRGRHSAILPRTGSKGSFVYGILGYTSVALSLI	1000

Spy74_M3	952	951
Spy70_M5	971	970
Spy69_M6	964	963
Spy68_M2	972	971
Spy60_M1	972	971
12357_M18	970	969
700294_M1	1001	TAIKKKKY 1008